THE FOLLOWING IS CLAIMED:

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- A method for processing a metal containing surface comprising:
 cleaning at least a portion of the metal containing surface,
 contacting at least a portion of the metal containing surface with at least one silica containing composition having a basic pH, and;
 contacting with a molten metal.
- 2. A method for treating a metal containing surface comprising at least one shaped electronic component defining at least one opening therein comprising: cleaning the component, rinsing the component, exposing the component to at least one acid containing solution, contacting at least a portion of the component with a coating composition having a basic pH and comprising at least one silica containing composition, contacting with a molten metal, and; recovering at least one treated electronic component.
 - 3. The method of 2 wherein the metal surface comprises at least one member selected from the group of an electric motor, a transformer and components thereof.
 - 4. A method for processing a metal containing surface comprising: cleaning at least a portion of the metal containing surface, rinsing the metal containing surface, functionalizing at least a portion of the metal containing surface by exposure to at least one acidic solution, contacting at least a portion of the metal containing surface with at least one silica containing composition having a basic pH,
- exposing the metal containing surface to a basic solution, and;

contacting with a molten metal.

- 5. The method of Claim 4 wherein the composition of the metal surface is different from the molten metal.
- 6. The method of Claim 5 wherein the metal surface comprises zinc and the molten metal comprises aluminum.
- 7. The method of Claim 4 further comprising solidifying the molten metal and heating the metal containing surface to a temperature greater than its melting point and removing the metal from the solidified metal.
- 8. The method of Claim 2 wherein the metal containing surface comprises steel and the molten metal comprises aluminum.
- 9. The method of Claim 4 wherein the method reduces adhesion between the metal containing surface and the molten metal.
- 10. The method of Claim 4 wherein the acidic solution comprises hydrochloric acid and the basic solution comprises sodium hydroxide.

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